

Test Report Quality of Bitumen

Project Name	Asphalting road from Amruthahalli main road to Jakkur Burial ground in Ward No.05
Executive Engineer	Executive Engineer, Project Division Yalahanka
Project No.	MCTPL/BBMP/Project-YNK/2017-2018/QR/01
Material	Bituminous Concrete (BC)
Inspector	K.R.I.D.L
Method	IS : 73 - 1992 & Specification for Road & Bridge Works, MORT&H,
Grade of Bitumen	60 / 70
Plant	Hot Mix Plant
Material	Bitumen
Lot No	1
Date	13-Jun-2018

Sl. No.	Description	Test Results	Requirement as per
			IS:73 - 1992
1	Penetration at 25°C, 1 / 10 mm	64	60 - 70
2	Softening Point, (°C)	55	45 - 55
3	Specific Gravity	1.1	Min. 0.97
4	Ductility at 27°C, in cm	82	Min. 75
5	Flash Point, (°C)	185	Min. 175

- The results indicated above are based on the tests carried out on the sample at site.
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Test Report
Quality of Bitumen

Asphalting road from Amruthahalli main road to Jakkur Burial ground
in Ward No.05
Executive Engineer, Project Division Yalahanka
MCTPL/BBMP/Project-YNK/2017-2018/QR/01
Bituminous Concrete (BC)
K.R.I.D.L
IS : 73 - 1992 & Specification for Road & Bridge Works, MORT&H,
60 / 70
Hot Mix Plant
Bitumen
2
13-Jun-2018

Description	Test Results	Requirement as per IS:73 - 1992
Penetration at 25 ⁰ C , 1 / 10 mm	68	60 - 70
Softening Point, (°C)	53	45 - 55
Specific Gravity	1.1	Min. 0.97
Ductility at 27 ⁰ C, in cm	84	Min. 75
Flash Point, (°C)	179	Min. 175

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Test Report Rate of Spread of Tack Coat

Paving road from Amruthahalli main road to Jakkur Burial ground in Ward
 No.05
 Executive Engineer, Project Division Yalahanka
 MCTPL/BBMP/Project-YNK/2017-2018/QR/01
 Bituminous Concrete (BC)
 GR/D.L
 at Site
 Shimen
 18-Jun-2018

Determination	Unit	Test No 1		
		Longitudinal Distribution		
Size of Plate (mxn)	m ²	0.2x0.2	0.2x0.2	0.2x0.2
Area of the Plate (a)	m ²	0.04	0.04	0.04
Initial weight of the empty Plate (b)	kg	1.641	1.641	1.641
Final weight of plate after application of Tack Coat (c)	kg	1.655	1.653	1.653
Weight of Prime coat/ Tack Coat (d = c-b)	kg	0.014	0.012	0.012
Rate of spread (d/a)	kg / m ²	0.350	0.300	0.300
Average	kg / m ²	= 0.317		
Specified Limit	kg / m ²	Not less than 0.25 kg / m ²		

Result: Rate of Spread of Prime Coat / Tack Coat is: 0.317 kg / m²

Results above are based on the tests carried out on the sample at site.
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Test Report Rate of Spread of Tack Coat

Project Name	Asphalting road from Amruthahalli main road to Jakkur Burial ground in Ward No.05
Client	Executive Engineer, Project Division Yalahanka
Project No	MCTPL/BBMP/Project-YNK/2017-2018/QR/01
Material Type	Bituminous Concrete (BC)
Contractor	K.R.I.D.L
Location	At Site
Material	Bitumen
Sample No	2
Date	18-Jun-2018

Sl. No.	Determination	Unit	Test No 1		
			Longitudinal Distribution		
1	Size of Plate (mxn)	m ²	0.2x0.2	0.2x0.2	0.2x0.2
2	Area of the Plate (a)	m ²	0.04	0.04	0.04
3	Initial weight of the empty Plate (b)	kg	1.641	1.641	1.641
4	Final weight of plate after application of Tack Coat (c)	kg	1.654	1.652	1.652
5	Weight of Prime coat/ Tack Coat (d = c-b)	kg	0.013	0.011	0.011
6	Rate of spread (d/a)	kg / m ²	0.325	0.275	0.275
7	Average	kg / m ²	0.292		
8	Specified Limit	kg / m ²	Not less than 0.25 kg / m ²		

Results: Rate of Spread of Prime Coat / Tack Coat is: 0.292 kg / m²

The results indicated above are based on the tests carried out on the sample at site.

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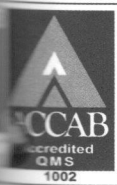
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Test Report Rate of Spread of Tack Coat

Project Name	Asphalting road from Amruthahalli main road to Jakkur Burial ground in Ward No.05
Client	Executive Engineer, Project Division Yalahanka
Project No	MCTPL/BBMP/Project-YNK/2017-2018/QR/01
Material Type	Bituminous Concrete (BC)
Contractor	K.R.I.D.L
Location	At Site
Material	Bitumen
Sample No	3
Date	18-Jun-2018

Sl. No.	Determination	Unit	Test No 1		
			Longitudinal Distribution		
1	Size of Plate (mxn)	m ²	0.2x0.2	0.2x0.2	0.2x0.2
2	Area of the Plate (a)	m ²	0.04	0.04	0.04
3	Initial weight of the empty Plate (b)	kg	1.641	1.641	1.641
4	Final weight of plate after application of Tack Coat (c)	kg	1.654	1.653	1.653
5	Weight of Prime coat/ Tack Coat (d = c-b)	kg	0.013	0.012	0.012
6	Rate of spread (d/a)	kg / m ²	0.325	0.3	0.3
7	Average	kg / m ²	0.325		
8	Specified Limit	kg / m ²	Not less than 0.25 kg / m ²		

Results: Rate of Spread of Prime Coat / Tack Coat is: 0.325 kg / m²

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Test Report
Aggregate Impact Value

Project Name	Asphalting road from Amruthahalli main road to Jakkur Burial ground in Ward No.05
Client	Executive Engineer, Project Division Yalahanka
Project No	MCTPL/BBMP/Project-YNK/2017-2018/QR/01
Material Type	Bituminous Concrete (BC)
Contractor	K.R.I.D.L
Test Method	IS : 2386 (Part - 4) 1963 & Specification for Road & Bridge Works, MORT&H, Rev. V.
Location	At Site
Material	Coarse Aggregate
Sample No	1
Date	17-Jun-2018

Sl. No.	Determination	Unit	Trails	
1	Weight of empty cylinder, w1	gm	960	960
2	Weight of container filled with Aggregate, w2	gm	1300	1301
3	Weight of the Aggregate before compaction, (w2 - w1) = w3	gm	340	341
4	Weight of the sample passing through 2.36 mm IS sieves after Impact, w4	gm	79	80
5	Weight of the sample retained on 2.36 mm IS sieve after Impact, w5	gm	261	261
6	Aggregate Impact Value (w4 / w3) x 100	%	23.24	23.46
7	Specified Limit	%	24	

Results: Average Aggregate Impact Value: **23.35 %**

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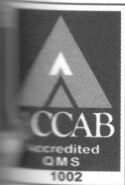
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Test Report Aggregate Particle Shape

Location	Asphalting road from Amruthahalli main road to Jakkur Burial ground in Ward No.05
Client	Executive Engineer, Project Division Yalahanka
Project	MCTPL/BBMP/Project-YNK/2017-2018/QR/01
Material	Bituminous Concrete (BC)
Contract	K.R.I.D.L
Method	IS : 2386 (Part - 1) 1963 & Specification for Road & Bridge Works, MORT&H, Rev. V.
Plant	Hot Mix Plant
Sample	Coarse Aggregates
Lot No	1
Date	17-Jun-2018

IS Sieves Size		Weight of Retained Sample on Each Sieve (minimum 200 Pieces) (gm)	Flakiness Index		Elongation Index	
Passing through IS Sieves (mm)	Retained on IS Sieves (mm)		Thickness Gauge	Weight of Aggregates in each fraction passing on thickness gauges (gm)	Length Gauge	Weight of Aggregates in Fraction retained on length gauges (gm)
63	50	0	33.9	0	-	0
50	40	0	27	0	81	0
40	25	0	19.5	0	58.5	0
31.5	25	0	16.95	0	-	0
25	20	1557	13.5	237	40.5	255
20	16	1443	10.8	122	32.4	149
16	12.5	954	8.55	149	25.6	156
12.5	10	469	6.75	71	20.2	77
10	6.3	235	4.89	57	14.7	64
SW		4658	SWf	636	SWe	701

Flakiness Index 13.65 %
Elongation Index 15.05 %

Combined Flakiness and Elongation Indices : 28.70 %

Remarks: Maximum allowable Combined Flakiness and Elongation Indices for Bituminous Concrete is 35%.

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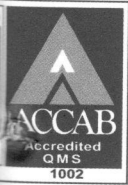
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Test Report
Aggregate Stripping Value

Project Name	Asphalting road from Amruthahalli main road to Jakkur Burial ground in Ward No.05
Client	Executive Engineer, Project Division Yalahanka
Job No	MCTPL/BBMP/Project-YNK/2017-2018/QR/01
Job Type	Bituminous Concrete (BC)
Contractor	K.R.I.D.L
Test Method	IS : 6241 - 1971 & Specification for Road & Bridge Works, MORT&H, Revision V.
Location	Hot Mix Plant
Material	Coarse Aggregates / Bitumen
Sample No	1
Date	13-Jun-2018
Type of Aggregate	Coarse Aggregate
Type of Binder	60 / 70 Grade
Percentage of Binder Used	5% by weight
Total weight of Aggregate	200 gms
Total weight of Binder	10 gms
Temperature of water bath	40°C

Observation Number	Stripping Percentage	Average Percentage	Average Retained Coating (%)
1	3.4	3.5	96.5
2	3.5		
3	3.6		

Comments: Minimum allowable Aggregate Stripping Value for Bituminous Concrete is 3.5%

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Test Report

Specific Gravity and Water Absorption

Project Name	Asphalting road from Amruthahalli main road to Jakkur Burial ground in Ward No.05
Client	Executive Engineer, Project Division Yalahanka
Job No	MCTPL/BBMP/Project-YNK/2017-2018/QR/01
Mix Type	Bituminous Concrete (BC)
Contractor	K.R.I.D.L
Test Method	IS: 2386 (Part - 111) 1963 & Specification for Road & Bridge Works, MORT&H, Rev. V.
Location	Hot Mix Plant
Material	Coarse Aggregates
Sample No	1
Date	13-Jun-2018

Sl. No.	Particulars	Computations	Test Numbers		Mean
			Test 1	Test 2	
1	Weight of Empty Basket Immersed in Water	W_1 g	761	763	
2	water	W_2 g	2024	2022	
3	Weight of Saturated Aggregate in water	$W_{sg} = W_2 - W_1$	1263	1259	
4	Weight of saturated surface dry aggregate in Air	W_3 g	2059	2047	
5	Aggregate	$W_3 - W_s$	796	788	
6	Weight of Oven dried Aggregate	W_4 g	2020	2018	2.55
7	Specific Gravity	$W_4 / (W_3 - W_s)$	2.54	2.56	
8	Apparent Specific Gravity	$W_4 / (W_4 - W_s)$	2.67	2.66	
9	Water Absorption	$(W_4 - W_3) * 100 / W_4$	1.93	1.44 *	1.69

Comments: Maximum allowable Aggregate Water Absorption value for Bituminous Concrete is 2.0%.

Note:

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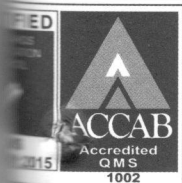
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Test Report Aggregate Gradation

Project Name	Asphalting road from Amruthahalli main road to Jakkur Burial ground in Ward No.05
Client	Executive Engineer, Project Division Yalahanka
Job No	MCTPL/BBMP/Project-YNK/2017-2018/QR/01
Mix Type	Bituminous Concrete (BC)
Contractor	K.R.I.D.L
Test Method	IS : 2386 (Part - 1) 1963 & Specification for Road & Bridge Works, MORT&H, Rev. V.
Location	Hot Mix Plant
Material	Coarse Aggregates
Sample No	1
Date	18-Jun-2018

Weight of Sample: 4000 gms

Sl. No.	I.S. Sieve size (mm)	Weight Retained (gm)	Percentage of weight Retained (%)	Cumulative Percentage of weight retained	Cumulative % of Passing		Remarks
					Test Result	Gradation Limits as per MORT&H	
1	19.00	0	0.00	0.00	100.00	100	Gradation satisfies the MORT&H Grade II Specification for Bituminous Concrete
2	13.20	674	16.85	16.85	83.15	72-100	
3	9.50	430	10.75	27.60	72.40	70-88	
4	4.75	263	6.58	34.18	65.83	53-71	
5	2.36	478	11.95	46.13	53.88	42-58	
6	1.18	341	8.53	54.65	45.35	34-48	
7	0.60	438	10.95	65.60	34.40	26-38	
8	0.30	426	10.65	76.25	23.75	18-28	
9	0.15	380	9.50	85.75	14.25	12-20	
10	0.075	364	9.10	94.85	5.15	(4-10)	

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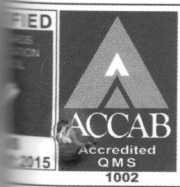
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Test Report
Stability of Mix

Project Name	Asphalting road from Amruthahalli main road to Jakkur Burial ground in Ward No.05
Client	Executive Engineer, Project Division Yalahanka
Job No	MCTPL/BBMP/Project-YNK/2017-2018/QR/01
Mix Type	Bituminous Concrete (BC)
Contractor	K.R.I.D.L
Test Method	Specification for Road & Bridge Works, MORT&H, Revision V.
Location	Bay
Material	Bituminous Concrete mix
Sample No	1
Date	18-Jun-2018

Sl. No.	Description	Unit	Test 1	Requirements as per MORT&H
1	Marshal Stability	KN	9.6	9 KN (min)
2	Marshal Flow	mm	3.6	2 - 4 mm
3	Percent of Air Voids in mix	%	4.38	3 - 6 %
4	Percent of Voids in Mineral Aggregates filled with Bitumen	%	72	65 - 75 %
5	Density	g/cc	2.22	2.22 g/cc

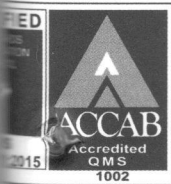
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Test Report **Stability of Mix**

Project Name	Asphalting road from Amruthahalli main road to Jakkur Burial ground in Ward No.05
Client	Executive Engineer, Project Division Yalahanka
Job No	MCTPL/BBMP/Project-YNK/2017-2018/QR/01
Mix Type	Bituminous Concrete (BC)
Contractor	K.R.I.D.L
Test Method	Specification for Road & Bridge Works, MORT&H, Revision V.
Location	Bay
Material	Bituminous Concrete mix
Sample No	2
Date	18-Jun-2018

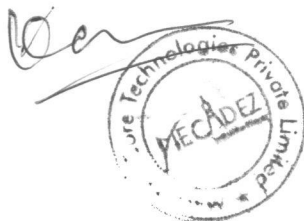
Sl. No.	Description	Unit	Test 1	Requirements as per MORT&H
1	Marshal Stability	KN	9.6	9 KN (min)
2	Marshal Flow	mm	3.6	2 - 4 mm
3	Percent of Air Voids in mix	%	4.38	3 - 6 %
4	Percent of Voids in Mineral Aggregates filled with Bitumen	%	72	65 - 75 %
5	Density	g/cc	2.22	2.22 g/cc

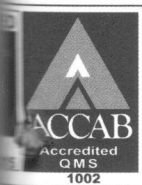
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Test Report
Stability of Mix

Project Name	Asphalting road from Amruthahalli main road to Jakkur Burial ground in Ward No.05
Client	Executive Engineer, Project Division Yalahanka
Job No	MCTPL/BBMP/Project-YNK/2017-2018/QR/01
Mix Type	Bituminous Concrete (BC)
Contractor	K.R.I.D.L
Test Method	Specification for Road & Bridge Works, MORT&H, Revision V.
Location	Bay
Material	Bituminous Concrete mix
Sample No	3
Date	18-Jun-2018

S. No.	Description	Unit	Test 1	Requirements as per MORT&H
1	Marshal Stability	KN	9.6	9 KN (min)
2	Marshal Flow	mm	3.6	2 - 4 mm
3	Percent of Air Voids in mix	%	4.38	3 - 6 %
4	Percent of Voids in Mineral Aggregates filled with Bitumen	%	72	65 - 75 %
5	Density	g/cc	2.22	2.22 g/cc

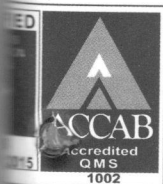
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Test Report
Binder Content and Mix Gradation

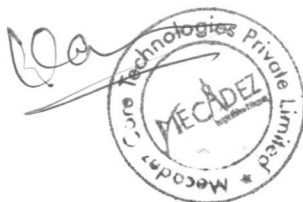
Project Name	Asphalting road from Amruthahalli main road to Jakkur Burial ground in Ward No.05
Client	Executive Engineer, Project Division Yalahanka
Job No	MCTPL/BBMP/Project-YNK/2017-2018/QR/01
Mix Type	Bituminous Concrete (BC)
Contractor	K.R.I.D.L
Test Method	Specification for Road & Bridge Works, MORT&H, Revision V.
Location	Bay
Material	Bituminous Concrete mix
Sample No	1
Date	18-Jun-2018

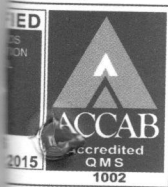
	Description	Unit	Computation	Test Result
1	Weight of Empty bowl before Extraction (E)	gm	E _b	1080
2	Weight of bowl + Sample before extraction (w _s)	gm	w _{sb}	1870
3	Weight of Sample taken for the test (S _b)	gm	S _b = w _{sb} - E _b	790
4	Weight of bowl + Sample after extraction (w _a)	gm	w _{sa}	1825
5	Weight of Sample after extraction (i.e. washed aggregates) (S _a)	gm	S _a = w _{sa} - E _b	745
6	Weight of Filter paper before extraction (F _b)	gm	F _b	2
7	Weight of Filter paper after extraction (F _a)	gm	F _a	4
8	Weight of filler on filter paper (F _d)	gm	F _d = F _b - F _a	2
9	Weight of Bitumen without considering Filter paper (W _b)	gm	W _b	45
10	Weight of the Bitumen with considering Filter paper (W _a)	gm	W _a = w _b - F _d	43
11	Percentage of the Bitumen (i.e. Binder Content) (% _B)	(%)	W _a / S _b X 100	5.44

Sl. No.	I.S. Sieve size (mm)	Weight Retained (gm)	Percentage of weight Retained (%)	Cumulative Percentage of weight retained (%)	Cumulative % of Passing		Remarks
					Test Result	Gradation Limits as per MORT&H	
1	19.00	0.00	0.00	0.00	100.00	100.00	Gradation satisfies the MORT&H Grade II Specification for Bituminous Concrete
2	13.20	675.00	16.88	16.88	83.13	72-100	
3	9.50	432.00	10.80	27.68	72.33	70-88	
4	4.75	265.00	6.63	34.30	65.70	53-71	
5	2.36	480.00	12.00	46.30	53.70	42-58	
6	1.18	343.00	8.58	54.88	45.13	34-48	
7	0.60	435.00	10.88	65.75	34.25	26-38	
8	0.30	390.00	9.75	75.50	24.50	18-28	
9	0.15	385.00	9.63	85.13	14.88	12-20	
10	0.08	370.00	9.25	94.38	5.63	(4-10)	

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Test Report
Binder Content and Mix Gradation

Project Name	Asphalting road from Amruthahalli main road to Jakkur Burial ground in Ward No.05
Client	Executive Engineer, Project Division Yalahanka
Job No	MCTPL/BBMP/Project-YNK/2017-2018/QR/01
Mix Type	Bituminous Concrete (BC)
Contractor	K.R.I.D.L
Test Method	Specification for Road & Bridge Works, MORT&H, Revision V.
Location	Bay
Material	Bituminous Concrete mix
Sample No	2
Date	18-Jun-2018

	Description	Unit	Computation	Test Result
1	Weight of Empty bowl before Extraction (E)	gm	E _b	1080
2	Weight of bowl + Sample before extraction (w _{sb})	gm	w _{sb}	1885
3	Weight of Sample taken for the test (S _b)	gm	S _b = w _{sb} - E _b	805
4	Weight of bowl + Sample after extraction (w _{sa})	gm	w _{sa}	1839
5	Weight of Sample after extraction (i.e. washed aggregates) (S _a)	gm	S _a = w _{sa} - E _b	759
6	Weight of Filter paper before extraction (F _b)	gm	F _b	2
7	Weight of Filter paper after extraction (F _a)	gm	F _a	4
8	Weight of filler on filter paper (F _d)	gm	F _d = F _b - F _a	2
9	Weight of Bitumen without considering Filter paper (W _b)	gm	W _b	46
10	Weight of the Bitumen with considering Filter paper (W _a)	gm	W _a = w _b - F _d	44
11	Percentage of the Bitumen (i.e. Binder Content) (% _B)	(%)	W _a / S _b X 100	5.47

Sl. No.	I.S. Sieve size (mm)	Weight Retained (gm)	Percentage of weight Retained (%)	Cumulative Percentage of weight retained (%)	Cumulative % of Passing		Remarks
					Test Result	Gradation Limits as per MORT&H	
1	19.00	0.00	0.00	0.00	100.00	100.00	Gradation satisfies the MORT&H Grade II Specification for Bituminous Concrete
2	13.20	674.00	16.85	16.85	83.15	72-100	
3	9.50	430.00	10.75	27.60	72.40	70-88	
4	4.75	263.00	6.58	34.18	65.83	53-71	
5	2.36	478.00	11.95	46.13	53.88	42-58	
6	1.18	341.00	8.53	54.65	45.35	34-48	
7	0.60	438.00	10.95	65.60	34.40	26-38	
8	0.30	426.00	10.65	76.25	23.75	18-28	
9	0.15	380.00	9.50	85.75	14.25	12-20	
10	0.08	364.00	9.10	94.85	5.15	(4-10)	

For Mecadez Core Technologies Private Limited

Authorised Signature

